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PATENT

Attorney Docket No. A-70203/RMS/JML



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Choong, et al.

Serial No.: 09/652,284

Filing Date: 31 August 2000

For: **Addressable Array for High Density Electrical and Electrochemical Detection of Biomolecules**

Examiner: Tran, My Chau T

Group Art Unit: 1641

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail addressed to the Assistant Commissioner of Patents, Washington, D.C. 20231 on 9/13/02.

Signed Victoria T. Linne  
Victoria T. Linne

**AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Following is Applicants' response to the Office Action mailed 13 March 2002. The response is accompanied by a Petition for a three-month extension of time and appropriate fee. Accordingly a response is due 13 September 2002, making this a timely response. Please amend the application as follows:

**IN THE CLAIMS**

Please amend claims 1-4 and 64-68 to read as follows:

1. (Amended) An apparatus for electrical detection of molecular interactions between immobilized probe molecules and target molecules in a sample solution, comprising:  
(a) a supporting substrate comprising an array of test sites,  
(b) a plurality of porous, polymeric pads in contact with the supporting substrate at the test sites,  
(c) a set of input electrodes in contact with the plurality of porous, polymeric pads at the test sites, wherein each input electrode is arranged such that a first portion of the input electrode is in contact with a test site and a second portion of the input electrode is in contact with a different test site,  
(d) a set of output electrodes in contact with the plurality of porous, polymeric pads at the test sites, wherein each output electrode is arranged such that a first portion of the output electrode is in contact with a test site and a second portion of the output electrode is in contact with a different test site, and wherein each output electrode is in electrochemical contact with an input electrode,